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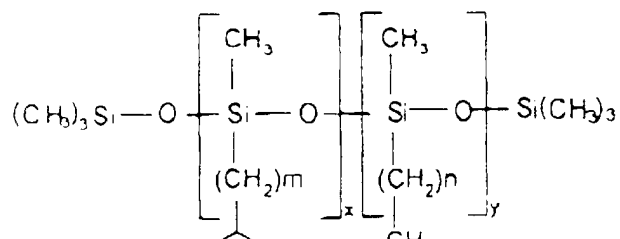
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(54) Halogen-free flameproof thermoplastic moulding materials

(57) The present invention relates to halogen-free flameproof thermoplastic molding compounds which comprise an aromatic polycarbonate, a styrene-containing copolymer, a styrene-containing graft polymer, a phosphorus compound, a silicon compound, and a tetrafluoroethylene polymer. It has been found that the use of a specific type of silicon compound leads to a polymer mixture having improved stress crack resistance and impact properties.

The silicon compound is represented as the following General Formula (1).

General Formula (1):



in which n and m have a value of from 5 to 8, and x and y have a value of from 1 to 5.

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EUROPEAN SEARCH REPORT

Application Number
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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.7)
A	US 5 658 974 A (FUHR KARL ET AL) 19 August 1997 (1997-08-19) * claim 1 * -----	1	C08L69/00 C08K5/521 /(C08L69/00, 25:08,51:04, 83:04,27:18)
			TECHNICAL FIELDS SEARCHED (Int.Cl.7)
			C08L C08K
The present search report has been drawn up for all claims			
Place of search MUNICH		Date of completion of the search 29 October 2001	Examiner Von Kuzenko, M
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**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

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Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5658974 A	19-08-1997	DE 4436776 A1	18-04-1996
		DE 59508221 D1	31-05-2000
		EP 0707045 A2	17-04-1996
		ES 2145197 T3	01-07-2000
		JP 8225737 A	03-09-1996
